

ABSTRACT OF THE DISCLOSURE

A system for shortening the class loading process in a Java program according to the present invention includes a class loader unit for loading Java program class files from an auxiliary memory, performing linking and initialization processes and generating runtime data; a first memory unit for maintaining the runtime data generated by the class loader unit in an accessible state; a second memory unit for storing the runtime data, which have been loaded into the first memory unit in an accessible state, in the form of images; a runtime data search unit for loading the runtime data, which have been stored in the second memory unit in the form of images, into the first memory unit upon the request of the class loader unit; and an execution unit for executing the runtime data that have been loaded into the first memory unit in an accessible state.